tecpro2 by Canford

TW415 MkII BATTERY CHARGER SYSTEM, 3 WAY

USER GUIDE



Product Code 27- 415

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1.0 INTRODUCTION

The Tecpro wireless system can be used to establish a full duplex wireless conference group of up to 6 personnel. The group can simultaneously talk and listen to all the other users within the same group.
In addition, an un-limited number of listener only belt-packs can be added to the system, useful for personnel who only need to monitor conversation within the group.

The system operates on a licence exempt UHF frequency of 869.525 MHz and uses encrypted digital transmission technology for secure communication. It will not interfere with in-ear or radio microphone systems. Approximate coverage is 300 - 400m depending on the environment.

Major applications are in the theatre, conference, live performance and broadcast markets, though new applications are constantly emerging.

2.0 BATTERIES AND CHARGER

2.1 Batteries

The batteries are 27-408 Lithium Polymer VARTA EasyPack 3.7V 2600mAh re-chargeable types.

You can re-charge the batteries before they are fully discharged. The batteries are fully re-charged in about 5 hours.
Battery autonomy is about 16 hours. (Average consumption is 200mA - peak consumption is 600mA).

N.B. When stored unused, the batteries keep discharging due to a very small current consumption in the **OFF** mode. Remove the battery from the belt-pack when you stop using it - and check the battery level before re-using.

Only use VARTA EasyPack 3.7V 2600mAh batteries. Use of any other battery or charger may present a risk of fire, explosion, leakage, or other hazard. After use, the batteries should be disposed of in an appropriate recycling centre. They should not be disposed of into the environment.

Do not short-circuit the contacts

Do not open the batteries.

Do not expose the batteries to temperatures above 100 deg C.

2.2 Charger

The 27-415 3-way charger is used for re-charging the batteries of the Canford Tecpro TW401 Mk II wireless belt-pack system. Each charger can simultaneously re-charge up to 3 batteries. This charger must only be used with VARTA EasyPack Lithium-Polymer, 3.7V re-chargeable batteries.

If the charger is used with any other battery, it could cause that battery to explode.

This charger has been designed for indoor use. The surrounding temperature when re-charging should be between 5 deg C and 45 deg C. If the temperature is not within this range, re-charging is suspended until the correct temperature has been reached.

Do not use any other power supply for the charger than the external AC/DC converter unit provided with the product. The charger should be placed on a flat surface.

2.3 Battery Charger Operation

Connect the power supply unit to the socket found on the side of the charger case and connect the power supply unit to a mains supply. When plugged in, the 3 status LEDs at the front of the charger will first turn AMBER, then they will turn off one after another and finally simultaneously flash GREEN.
The charger is then ready to be used.

Place the batteries in the charger (gold contact side down). When the battery has been detected, the corresponding LED turns RED. If the LED does not turn RED, please check that the battery has been correctly positioned (gold contact side down at the back of the compartment).
Charging duration is approximately 5 hours for a 2600mAh battery. Once the battery is fully charged, the corresponding LED turns GREEN.

A battery can be left in the charger - even after it has been completely charged.

2.4 LED Indicators

Steady RED	Charging.
Steady GREEN	Battery charged.
Flashing RED	Battery defect, charge has stopped, replace the battery.
Flashing GREEN	No battery installed.
Flashing GREEN and RED alternating	Battery temperature is outside of the authorised range, charging is suspended until the correct temperature has been reached.
Flashing ORANGE	Unrecognised battery, check the battery type.

2.5 Battery Charger Specification

AC/DC power unit electrical supply	100 - 240VAC ~ 1.5A 50 to 60Hz
Operating Temperature	5 deg C to 45 deg C
Charge Duration	5 hours (2600mAh battery)
Dimensions	L: 143mm H:39mm W: 75m
Battery Lifetime	> 500 cycles

2.6 Connecting Two Chargers Together

Two 3-way chargers can be connected together, to charge up to 6 batteries simultaneously.
Only one PSU is required.

Place the chargers on a flat surface, front charging bays facing you. Connect the charging bays together – the magnet system will hold the chargers together.

2.7 Accessories

27-416 TECPRO TW416 Battery charger, 3 way extension unit for TW415

27-417 TECPRO TW417 Battery charger, spare power supply for TW415

27-408 TECPRO Spare 2600mAh rechargeable battery for TW401